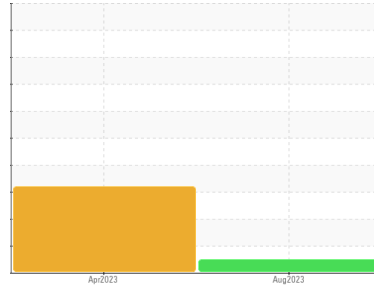




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Propulsion Shaft Bearings
 Machine Id
Propulsion Shaft Bearings Starboard
 Component
Front Right Bearing
 Fluid
PETRO CANADA TURBOFLO R&O 100 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA TURBOFLO R&O 100, however, a fluid match indicates that this fluid is ISO 100 R&O Hydraulic Oil. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0810841	WC0810871	---
Sample Date	Client Info		05 Aug 2023	14 Apr 2023	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Changed	N/A	---
Sample Status			NORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	<1	3	---
Chromium	ppm	ASTM D5185(m) >2	0	0	---
Nickel	ppm	ASTM D5185(m) >2	<1	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >5	<1	<1	---
Lead	ppm	ASTM D5185(m) >25	9	▲ 26	---
Copper	ppm	ASTM D5185(m) >5	<1	2	---
Tin	ppm	ASTM D5185(m) >15	2	6	---
Antimony	ppm	ASTM D5185(m)	1	5	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	6	▲ 35	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---
Manganese	ppm	ASTM D5185(m)	0	<1	---
Magnesium	ppm	ASTM D5185(m)	0	1	---
Calcium	ppm	ASTM D5185(m) 0	4	▲ 17	---
Phosphorus	ppm	ASTM D5185(m) 4	67	▲ 240	---
Zinc	ppm	ASTM D5185(m) 0	6	▲ 21	---
Sulfur	ppm	ASTM D5185(m)	863	▲ 3643	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

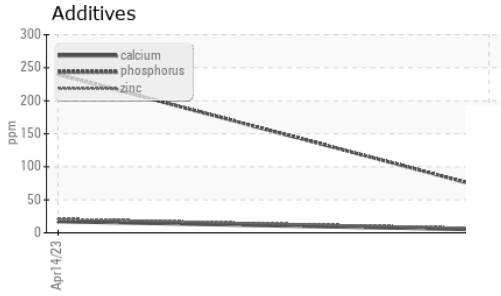
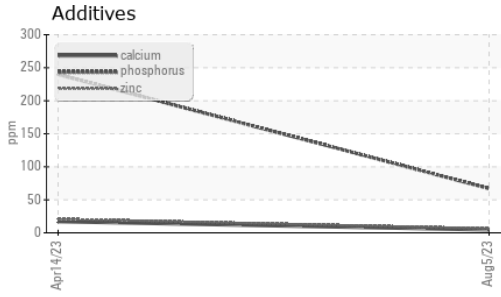
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	1	6	---
Sodium	ppm	ASTM D5185(m)	<1	2	---
Potassium	ppm	ASTM D5185(m) >20	<1	<1	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	Visual* NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual* NONE	NONE	NONE	---
Precipitate	scalar	Visual* NONE	NONE	NONE	---
Silt	scalar	Visual* NONE	NONE	NONE	---
Debris	scalar	Visual* NONE	VLITE	VLITE	---
Sand/Dirt	scalar	Visual* NONE	NONE	NONE	---
Appearance	scalar	Visual* NORML	NORML	NORML	---
Odor	scalar	Visual* NORML	NORML	NORML	---
Emulsified Water	scalar	Visual* >0.1	NEG	NEG	---
Free Water	scalar	Visual*	NEG	NEG	---



OIL ANALYSIS REPORT

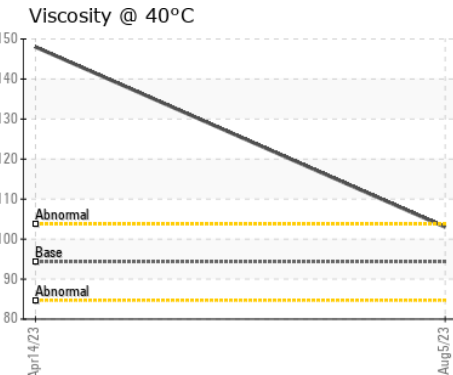
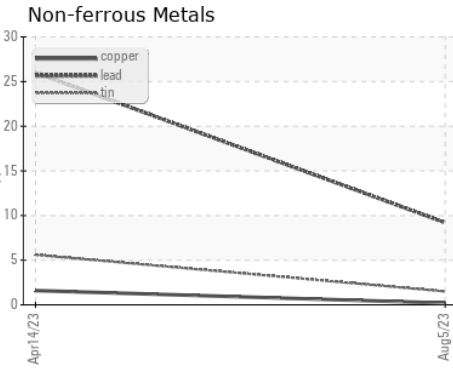
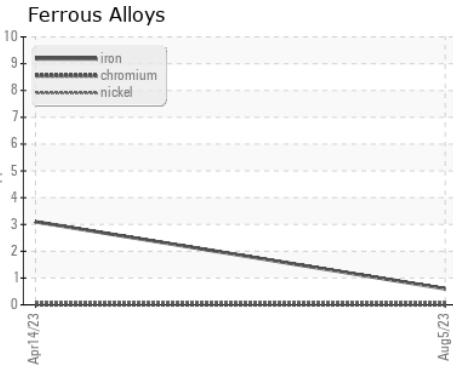


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	103	▲ 148	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color					no image
Bottom					no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0810841 **Received** : 15 Aug 2023
Lab Number : 02575932 **Diagnosed** : 16 Aug 2023
Unique Number : 5628992 **Diagnostician** : Kevin Marson
Test Package : MAR 1

Canadian Coast Guard
 CCGS Vincent Massey, 101 Boul. Champlain
 Quebec, QC
 CA G1K 7Y7
 Contact: Vincent Massey
 vincentmasseyse@ccgs-ngcc.gc.ca
 T: (418)573-7423
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.